

Contribution ID: 72 Type: Parallel Talk

SymEFT predictions for local fermion bilinears

Thursday, 3 August 2023 14:10 (20 minutes)

Beyond spectral quantities, Symanzik Effective Theory (SymEFT) predictions of the asymptotic lattice-spacing dependence require the inclusion of an additional minimal basis of higher-dimensional operators for each local field involved in the matrix element of interest. Adding the proper bases for fermion bilinears of mass-dimension 3 allows to generalise previous predictions to matrix elements of those bilinears. The results should be incorporated in ansätze used in continuum extrapolations. Potential difficulties and pitfalls are being high-lighted. The current work is limited to the use of Wilson or Ginsparg-Wilson quarks.

Topical area

Theoretical Developments

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Session Classification: Theoretical Developments